PX Digital Multimedia

X5

Crossover Driving Camcorder

DV-5200

User's Manual

Ver. 1.0

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1. Introduction

Thank you for purchasing X5, the Crossover Driving Camcorder. To ensure a proper usage and your safety, please read this User's Manual carefully and check if all the package contents are correct and complete without missing , if any part is damaged or missing, please contact the agent where you purchased from for help.

Features：

★ High Speed Video Processor: Ambarella A7 Chip Core
★ High Resolution Record: Super HD 1296P / Full HD 1080P
★ WDR technology: Improved and clear photography quality
★ FOV: 160 degree wide angle
★ WiFi Transmission: For Real-time video transmission
★ APP(Android/ iOS): For connection setting/ control/ real-time play
★ Built-in Battery: 700mAh lithium battery, allows 1 hr continuous usage.
★ Mobile Mode: Easy to carry and use
★ G-sensor: Auto start recording when the car is parked and hit.
★ Quick event record: One-push operation, protect records from being overwritten.
★ Time-lapse photography
★ Loop Record/Quick Event Record/ Time-lapse photography/Photo shot

2. Package Content

User's Manual & Quick Start Guide Enclosed

Main unit

4m USB power cable

USB car charger

Quick Release Mount

Car holder

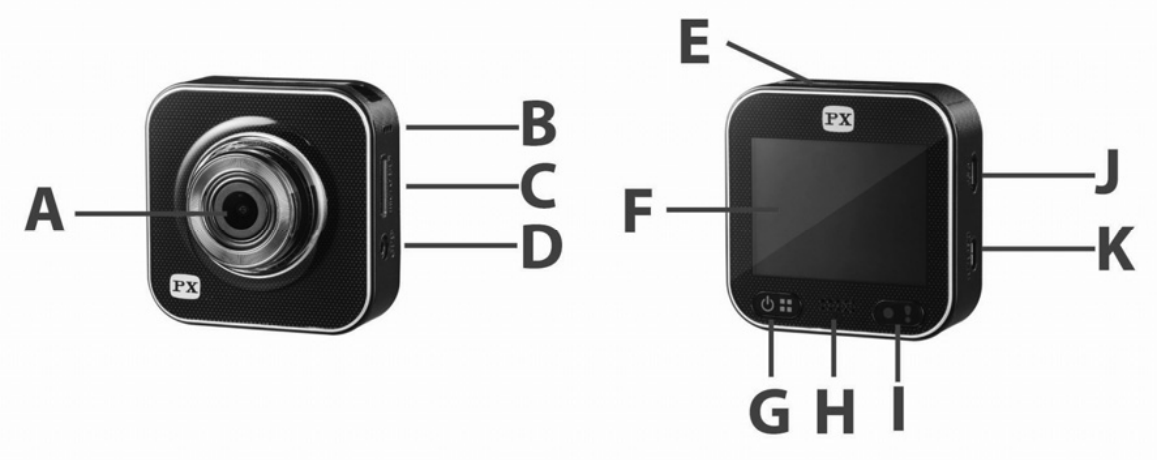
Bike Holder

Magic Tape Holder

Diving Kit

3. User's Interface

1. Main Unit



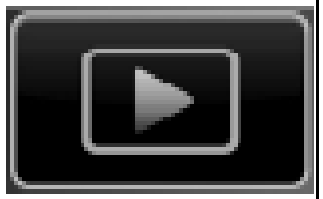
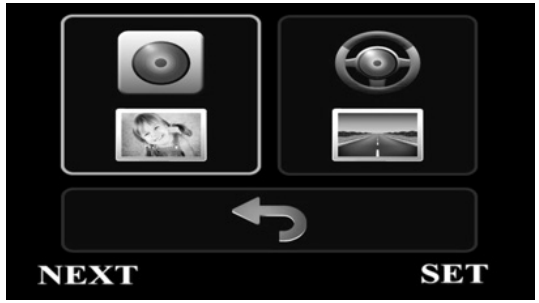
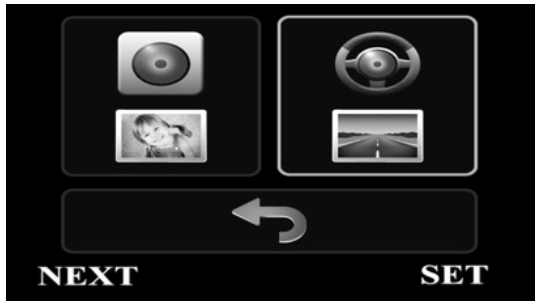
Mark	Name	Function
A	Lens	6G lens
B	Microphone	ON/OFF Switch Microphone
C	Memory card slot	Recommend use 8GB, Class 10 SD Card.
D	GPS connector	Function Disabled

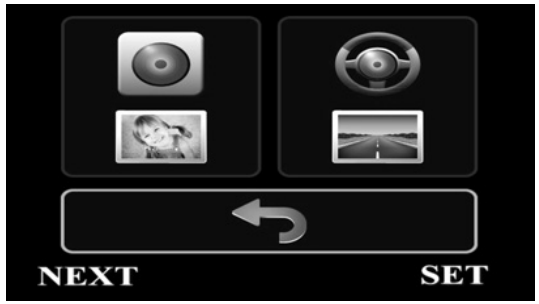
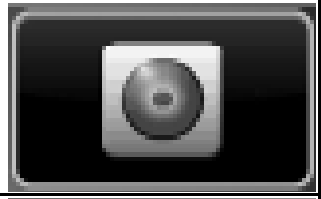
E	Quick Release gap	To be fixed to the Quick Release mount
F	LCD	Display for video, menu, function, system info, etc.
G	Power on/off, Main Menu	1. Push to power on, 3 sec push to power off 2. In standby mode, push to enter menu mode. 3. Long push 10 second to reboot.
H	Speaker	Audio output in video playback.
I	Quick Event Record/Enter	1. Dash Cam Mode In standby mode, push to activate recording; during recording, push to save 30 seconds former & later videos by the time you push it. 2. Action Cam Mode Push to start recording, push again to stop.
J	Micro USB port	1. USB power charging 2. Connect to PC to access SD Card
K	Micro HDMI output port	Video/Audio output to display ※HDMI cable is excluded in the package

2. Holder for car

Mark	Name	Function
L	Top knob	Fix into the Quick Release mount
M	Global axis knob	Adjust mounting angle
N	Latch	Fix/Loose the Suction Disc
O	Suction Disc	Attach to windshield

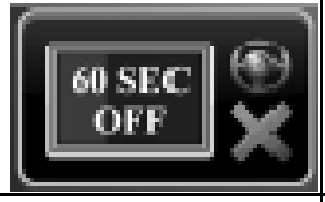
4. Instructions

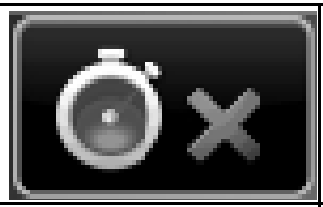
Name	Main option	Sub- Menu/ Remark	Function
Playback			Action Cam Mode video playback
			Dash Cam Mode video playback

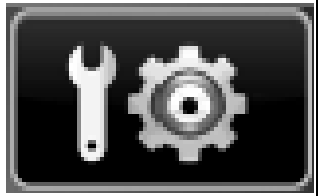
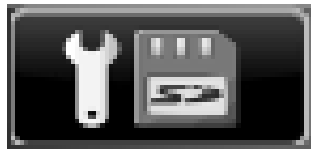
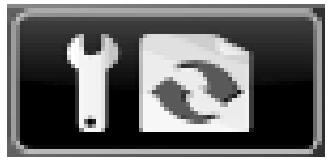
			Return to main menu
Dash Cam Mode			Switch to Dash Cam Mode 3 min loop record (Default setting)
Action Cam Mode			Switch to Action Cam Mode (Continuous Recording)
WiFi-Local			WiFi OFF (Default setting)

			WiFi ON (Connected in 1 min)
WiFi-Cloud			Use APP to setup and enable Cloud function (Default setting off)
			Cloud connection- Connecting to AP

			Cloud connection- Connecting to Internet
			Cloud connection completed
Voice Record		**Dash Cam Mode Only**	Voice Record OFF

		Dash Cam Mode Only	Voice Record ON (Default setting)
Auto Record		**Dash Cam Mode Only**	Auto Record OFF
		Dash Cam Mode Only	Auto Record ON (Default setting)
Screen Auto Off		**Dash Cam Mode Only**	Screen Auto Off OFF (Default setting)
		Dash Cam Mode Only	Screen Auto Off ON, LED off after 60 sec unused

Time Lapse		**Action Cam Mode** **Only**	Time-lapse photography OFF (Default setting)
		Action Cam Mode **Only**	Capture the images every 1/2/5/10/30/60 second, then a video will be produced automatically. 1. Push Quick Event Record/Enter Button to start or stop Time Lapse photography.

	 		2. A power bank is recommended for power supply during long time usage.
Setting			1. Format the SD Card. 2. Use APP to change Dash Cam & Action Cam mode's storage capacity ratio. (Default is 50% for each mode.)
			Resume to default setting.

5. About APP

Minimum System Requirement: Android 4.0 / iOS 6.0

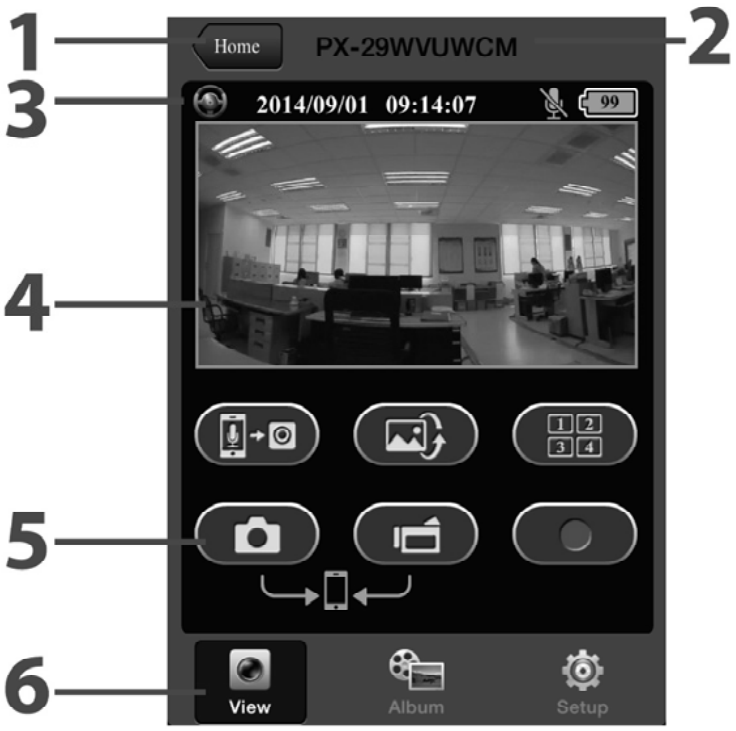
X5 equips with basic settings and modes selection, you can add more functions through APP, below examples are based on Android OS for your reference.

<table>
<tr><td>1. Download APP “PX CAM” from Google Play Store or Apple APP Store</td><td rowspan="3">
</td></tr>
<tr><td>2. Enable WiFi mode, the connection name will be shown.</td></tr>
<tr><td>3. Enable WiFi through Smart phone/Tablet</td></tr>
</table>

Note: For iOS users, please connect your Smart phone/Tablet to the X5 with WiFi manually, first connection will take about 1 min to complete.	Note: The date/time will be sync with your smart phone/tablet when their WiFi is connected with X5.
4. Open APP, tap to select Local or Internet Remark: Please Refresh before pairing the device	

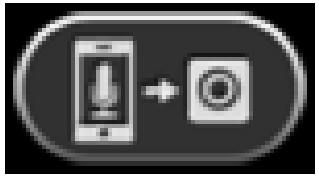
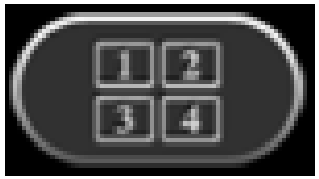
WiFi-Local Mode

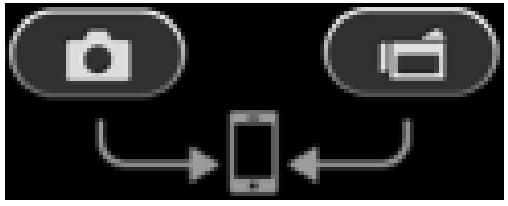
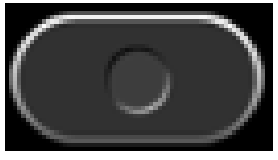
Tap to select the SSID to watch the video and change the settings.



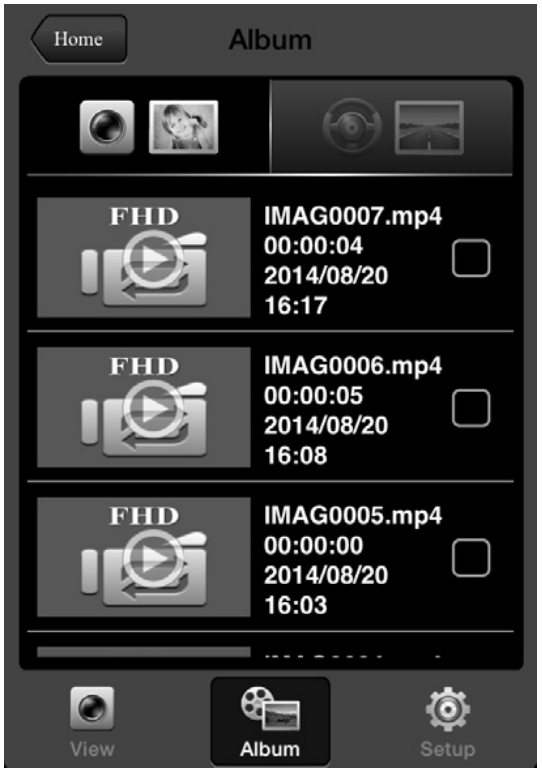
1. **Return to main menu**
2. **Connected Device**
3. Status(Dash Cam / Action Cam Mode, Date, Battery)
4. **Video Display**
5. Functions (Speak, Reverse, Division, Save to smart phone, tablet & Record)
6. **Mode switch** (View、Album、Setup)

1. View

Name	Icon	Function
Speak		Make a call to X5 via smart phone/ tablet
Reverse		Reverse the video upside down, applicable for the installation on bike/motorbike.
Division		Divide the display into 2 or 4

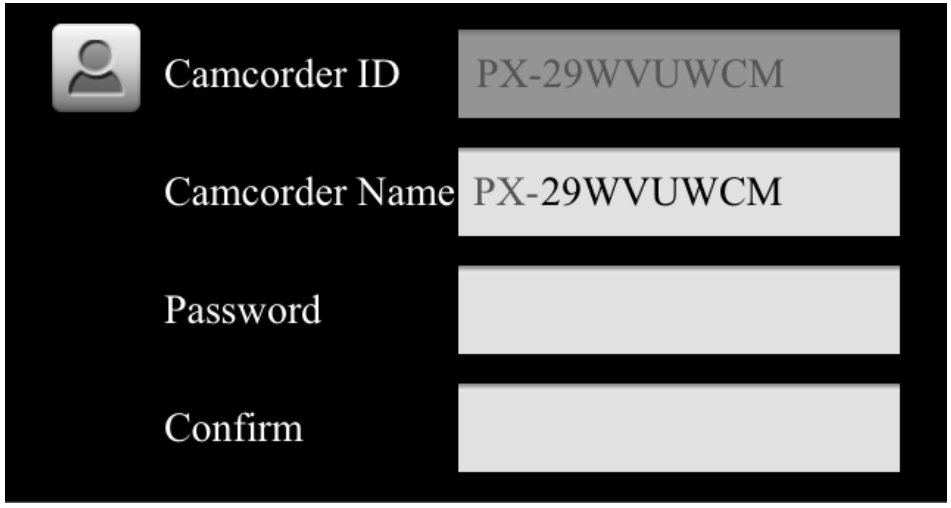
Save to smart phone/tablet		Save screen shot, video to smart phone/tablet Photo Resolution:2048*1536(QXGA) Video Resolution: 856*480(HQ)
Record		Start/stop Recording, the video will be saved in SD Card.

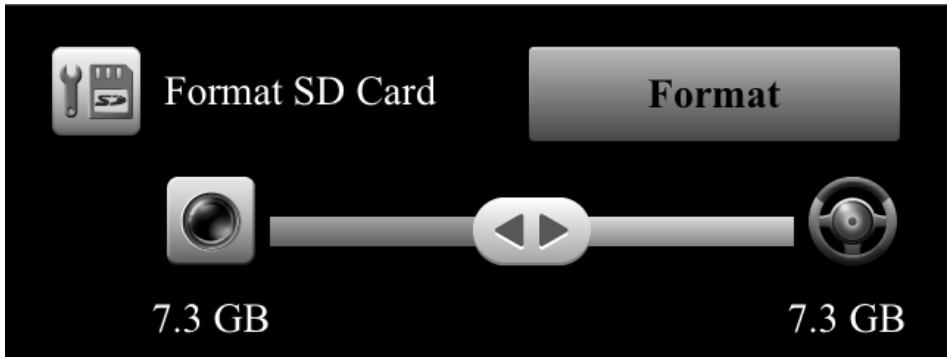
2. Album: Recorded video playback (Left: Action Cam Mode, Right: Dash Cam Mode)



3. Setup

1. **Return to main menu**
2. **Save the setting**
3. **Camera Setting** (Change Name & Password, Date/Time, Resolution, Sound effect, Default, Format SD Card & Language)
4. **Network Setting**（Email, AP）
5. **Camcorder Setting**（ Voice Record, Auto Record, Screen Auto Off, Motion Detect, Delay Power Off , Impact Sensor)

Item	Icon	Function
1-1		Change Camera's name & password
1-2		Update Date & Time

1-3		Resolution SHD(1296P) / FHD(1080P)
1-4		Operation Sound ON/OFF
1-5		Resume to Default
1-6		Format SD Card to adjust the Action Cam & Dash Cam save storage capacity ratio

1-7		Language
2-1		Enter email & AP to access real-time video.
3-1		Voice Record ON/OFF
3-2		Auto Record ON/OFF

3-3		Screen Auto Off ON/OFF
3-4		Motion Detector ON/OFF
3-5		Delay Power Off 10sec/OFF
3-6		G-Sensor H/L/OFF

WiFi-**Cloud Mode**

1. Enter Email & AP

2. Enable Cloud function

3. Go to the “Internet” mode, tap to select X5’s SSID “PX-XXXXXXXX”, if the connection is properly done, “Connected” will be shown; if not, “Disconnected” will be shown.
(Left: Internet Mode; Right: Real-time Video)

※ Reminder: Enable WiFi & Cloud function before above setting.

6. Trouble Shooting

Q1：My X5 won’t switch on when my car starts up.
A1：1. Please ensure the USB car charger LED is always lighted and the connector is properly inserted to X5’s power port.
2. Before using, please charge X5 for at least 3 min, long push the Power on/off, Main Menu Button for 10 seconds to reboot. (It is not recommended to use a cigarette multiple ports expansion set for charging, that may supply insufficient power.)

Q2：X5 starts up or shuts down frequently without manual operation.
A2：If the USB car charger LED is not always lighted, please check if the USB charger has bad connection to the car cigarette power jack.

Q3：When I shut down the car, X5 won’t switch off automatically.
A3： Please check if the USB car charger is always lighted, as some cars still supply power when the engine is switched off, you can prevent unnecessary power consumption by:
1. Remove the USB car charge
2. Install an auto switch off cigarette power supply to your car, please contact your vehicle maintain facility.

Q4: I need more cigarette power ports for other devices in my car.

A4： We recommend you to purchase a cigarette multiple ports expansion set to use. Please check your total max power consumption before purchasing the expansion set, for your safety, an expansion set with higher power and national safety certification is strongly recommended

Q5：Slight vibration is observed when playing back recorded files.

A5： 1. Your car may vibrate during idling and driving. The vibration amplitude varies with engine and shock absorbers. In certain cases, X5 may vibrate in sync with your car.

2. Tighten each screws of your X5. Consult your car supplier if the vibration is overly noticeable.

Q6：Fuzzy images can be found in recorded files after proper installation.

A6： 1. Make sure the windshield/X5's lens is clear. Dirty or greasy window glass will lead to images of poor quality.

2. Improper installation location may lead to fuzzy images caused by too large bevel within the windshield.

Q7：When playing recorded files with computer, there are noticeable halts observed.

A7：1. Make sure your computer is powerful enough for the playback. The recommended computer configuration is CPU 2.0GHz with more than 1GB memory.

2. Try stop running some of your resident programs.

3. Please use SD card of level C10 or higher.

4. Try copying your recorded files to the computer before playing them.

Q8: What is the SD Card specification that X5 supports upto?

A8: The highest capacity SD Memory is 64G, C10 or higher class is recommended.

SD Card capacity	Super HD 1296P / 30fps Recording time (min)	Full HD 1080P / 30fps Recording time (min)
8GB	90	100
16GB	180	200
32GB	360	400

Q9： Why my X5 does not start recording automatically when the car is started?

A9： 1. Please ensure your X5 is in Dash Cam Mode

2.Please make sure the Auto Record function is enabled.

(Setting-> Auto Record->Enable)

Q10：I can’t find X5’s WiFi SSID to connect.

A10：Please enable X5’s WiFi function (An icon will be shown), then open Smart

phone/Tablet’s WiFi and reboot the APP to connect with it.

Q11：Why an info ”This Camera is occupied by other mobile devices” is displayed?

A11：This information will be shown when you quit from the APP during recording, please stop the record manually and reboot X5 & APP to reconnect.

Q12: My video is upside down, how to adjust it?

A12: Please refer to page 19, 20 to reverse the video via APP operation.

7. Specification

Chip	Ambarella A7LA55
Light Sensor	Aptina 3 MP CMOS
Display LCD	2” LCD（480*234）
Lens Shot Angle	160 degree
Lens /Diaphragm	6G / F2.4
Dynamic Record Resolution	1.Super HD 1296P (30fps) (Supports only in X5) 2.Full HD 1080P(30fps)
Video format	MP4 (H.264)

Static photo format	JPG，2048x1536
SD Memory Card	Upto 64G (SD/SDHC/SDXC)
USB	USB 2.0 High Speed
G-sensor	Yes
Lithin Battery	700mAh Li-ion
HDMI Output	Micro HDMI
Wi-Fi	802.11 b/g/n
Real-time Review	WQVGA
Auto Power Off	10 sec delayed auto power off
Time Lapse Photography	1/ 2/ 5/ 10/ 30/ 60
Loop Record	Loop Record every 3 min
Save Back up	Manual / Auto

Photo shot	Supports when connects with smartphone/tablet.
Cloud share & play	Supports in WiFi-Cloud Mode
WDR	Yes
Language	English, Japanese, Deutsch, Italiano, etc. (Total 17 languages)
Dimension	55.5mm * 55.5mm * 29.3mm
Weight	67g
Working Temperature	-10℃ ~ 60℃
Power Supply	In：DC 12V~24V Out：DC 5V/1A（Micro USB）

8. Notice

1. Please do not operate during driving.
2. 8G, Class 10 (or higher) SD Card is recommended.
3. Please remove the SD card only when X5 is turned off, removing the SD Card during recording or any other improper operation might cause damage or data missing to the SD Card.
4. Do not bump or press on X5's main unit or its LED.
5. Keep your hands dry when operating X5.
6. Do not operate X5 in humid environment.
7. Do not use chemical cleanser for cleaning
8. Do not try to repair X5 by yourself, please contact the agent where you purchased the product if it has any problem.
9. Some cars keep supplying power to cigarette charger even when the engine is switched off, to prevent power wasting, please remove the USB car charger before getting off the car.
10. Please use only the DC 5V car charger included in the package, if you use a Cigarette power expansion set for other devices in your car, please ensure its power ampere is sufficient for all devices.

<table>
<tr><td>Product name</td><td>X5, Crossover Driving Camcorder</td><td colspan="2">Date of Purchase: / /</td></tr>
<tr><td>Model name</td><td>DV-5200 (X5)</td><td colspan="2"></td></tr>
<tr><td rowspan="2">User</td><td>Name：</td><td colspan="2">TEL：</td></tr>
<tr><td colspan="3">Address：</td></tr>
<tr><td rowspan="3">Agency</td><td>Name：</td><td colspan="2" rowspan="3">Chop：</td></tr>
<tr><td>TEL：</td></tr>
<tr><td>Address：</td></tr>
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